

## CLAIMS

1. A method for monitoring a software process running on a processor comprising the steps of:

- running a first process that executes an application on the processor;
- the first process creating a second process to run on the processor,

5 wherein the second process executes the application;

- the first process ending execution of the application when the second process is created, wherein the first process receives a signal indicating death of the second process if the second process stops executing;
- the second process monitoring the first process to ensure that the first

10 process is still executing;

- the second process determining that the first process is no longer executing;
- the second process creating a third process to run on the processor, wherein the third process executes the application, wherein the second

15 process receives a signal indicating death of the third process if the third process stops executing; and

- the second process ending execution of the application when the third process is created.

2. The method of claim 1 wherein the second process polls the first process to ensure that the first process is still executing.

3. The method of claim 1 wherein the second process periodically stores a state information associated with the application.

4. The method of claim 3 wherein the third process uses the state information to execute the application.

5. The method of claim 1 wherein an operating system executing on the processor provides the signal indicating death of the second process and the signal indicating death of the third process.
6. The method of claim 1 wherein the application relates to a wireless communication.
7. An apparatus for monitoring an application comprising:
  - a first process that executes the application on a processor;
  - a second process that is created by the first process, wherein the second process executes the application on the processor;
- 5 wherein the first process ends execution of the application when the second process is created and the first process receives a signal indicating death of the second process if the second process stops executing;
  - wherein the second process monitors the first process to ensure that the first process is still executing;
- 10 wherein if the second process determines that the first process is no longer executing, the second process creates a third process to run on the processor, wherein the third process executes the application and the second process receives a signal indicating death of the third process if the third process stops executing; and
  - 15 wherein the second process stops executing the application when the third process is created.
8. The apparatus of claim 7 wherein the second process polls the first process to ensure that the first process is still executing.
9. The apparatus of claim 7 wherein the second process periodically stores a state information associated with the application.

10. The apparatus of claim 9 wherein the third process uses the state information to execute the application.

11. The apparatus of claim 7 wherein an operating system executing on the processor provides the signal indicating death of the second process and the signal indicating death of the third process.

12. The apparatus of claim 7 wherein the application relates to a wireless communication.

13. A machine-readable medium having embodied thereon a program, the program being executable by a machine to perform method steps for monitoring a software process on a processor, the method comprising the steps of:

5       running a first process that executes an application on the processor;  
          the first process creating a second process to run on the processor, wherein the second process executes the application;  
          the first process ending execution of the application when the second process is created, wherein the first process receives a signal indicating death  
10      of the second process if the second process stops executing;  
          the second process monitoring the first process to ensure that the first process is still executing;  
          the second process determining that the first process is no longer executing;  
15      the second process creating a third process to run on the processor, wherein the third process executes the application, wherein the second process receives a signal indicating death of the third process if the third process stops executing; and  
          the second process ending execution of the application when the third  
20      process is created.

14. The machine-readable medium of claim 13 wherein the second process polls the first process to ensure that the first process is still executing.
15. The machine-readable medium of claim 13 wherein the second process periodically stores a state information associated with the application.
16. The machine-readable medium of claim 15 wherein the third process uses the state information to execute the application.
17. The machine-readable medium of claim 13 wherein an operating system executing on the processor provides the signal indicating death of the second process and the signal indicating death of the third process.
18. The machine-readable medium of claim 13 wherein the application relates to a wireless communication.